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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Summary Report

PROBABLE MOBILE VERSION OF RAMONA ELINT SYSTEM IDENTIFIED IN CZECHOSLOVAKIA (TSR)

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²25X

SR-020/79

APRIL 1979

Copy 133



Sanitized Copy Approved for Release 2010/03/29: CIA-RDP79T01184A000200050001-3 Top Secret RUFF 25X1 25X1 PROBABLE MOBILE VERSION OF RAMONA ELINT SYSTEM IDENTIFIED IN CZECHOSLOVAKIA (TSR) 25X1 (TSR) the production and testing of a mobile version of the Ramona automated ELINT collection and target locating system in Czechoslovakia. Detailed analysis of indicates that this mobile 25X1 version, the Ramona-M, was probably present at Opatovice Army Barracks 001 25X1 Czechoslovakia. Equipment observed included a sphere on a 25X1 mast, two van trailers, and one van truck. The mast appeared to be cable 25X1 connected to a van trailer (Figure 1). (TSRU) The Ramona-M system reportedly has been under development since June 1975 and has undergone prototype testing between March and December 1978.1 The Ramona-M at Opatovice 001 was probably undergoing prototype testing when imaged on 25X1 25X1 (TSRU) Recent reports indicate that acceptance testing of the mobile Ramona-M will take place from March to September 1979. It is scheduled to be released to the armed forces in late 1979.1 (TSRU) The operation of the mobile Ramona-M reportedly is similar to that of the fixed Ramona system which consists of a center station with two flank stations approximately 15 nautical miles apart. The time difference of arrival of signals from the flank stations to the center station determines the target's location. An attache photograph shows a probable Ramona-M at Chrudim, Czechoslovakia, in September 1978 (Figure 2).2 (S) Comments and queries regarding this report are welcome. They may be directed to Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, 25X1 - 1 -

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25X1

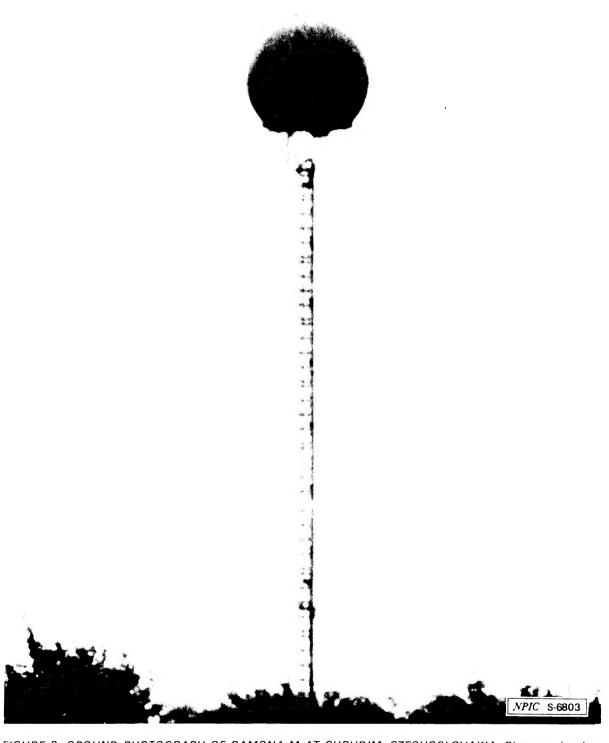


FIGURE 2. GROUND PHOTOGRAPH OF RAMONA-M AT CHRUDIM, CZECHOSLOVAKIA. Photograph taken from Reference Document 2.

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25X1

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List of Conversion Factors by Classification

UNITS OF LENGTH

UNITS OF MASS

IF YOU HAVE	MULTIPLY BY	TO OBTAIN	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
MILLIMETERS	0.0394	INCHES	KILOGRAMS	2.2046	POUNDS(AVOIR.)
CENTIMETERS	0.3937	INCHES	POUNDS(AVOIR.)	0.4536	KILOGRAMS
INCHES	25.4000	MILLIMETERS	SHORT TONS	0.9072	METRIC TONS
INCHES	2.5400	CENTIMETERS	METRIC TONS	1.1023	SHORT TONS
FEET	0.3048	METERS	METRIC TONS	0.9842	LONG TONS
FEET	0.0003	KILOMETERS	LONG TONS	1.0160	METRIC TONS
YARDS	0.9144	METERS			
METERS	3.2808	FEET			
METERS	0.0005	MILES(NAUTICAL)			
METERS	1.0936	YARDS	UNITS OF VOLUME		
KILOMETERS	3280.8400	FEET			
KILOMETERS	0.6214	MILES(STATUTE)	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
KILOMETERS	0.5400	MILES(NAUTICAL)	LITERS	0.2642	GALLONS
MILES(STATUTE)	1.6093	KILOMETERS	LITERS	0.0063	BARRELS(POL)
MILES(NAUTICAL)	6076.1154	FEET	LITERS	0.0010	CUBIC METERS
MILES(NAUTICAL)	1.8520	KILOMETERS	GALLONS	3.7854	LITERS
MILES(NAUTICAL)	1852.0000	METERS	GALLONS	0.1337	CUBIC FEET
			GALLONS	0.0238	BARRELS(POL)
			GALLONS	0.0038	CUBIC METERS
			BUSHELS	0.0352	CUBIC METERS
UNITS OF AREA			CUBIC FEET	7.4805	GALLONS
IF YOU HAVE	MULTIPLY BY	TO OBTAIN	CUBIC FEET	0.1781	BARRELS(POL)
SQUARE CENTIMETERS	0.1550	SQUARE INCHES	CUBIC FEET	0.0283	CUBIC METERS
SQUARE INCHES	6.4516	SQUARE CENTIMETERS	CUBIC YARDS	0.7646	CUBIC METERS
SQUARE FEET	0.0929	SQUARE METERS	BARRELS(POL)	158.9873	LITERS
SQUARE YARDS	0.8361	SQUARE METERS	BARRELS(POL)	42.0000	GALLONS
SQUARE METERS	10.7639	SQUARE FEET	BARRELS(POL)	5.6146	CUBIC FEET
SQUARE METERS	1.1960	SQUARE YARDS	BARRELS(POL)	0.1590	CUBIC METERS
SQUARE METERS	1.0000	CENTARES	CUBIC METERS	1000.0000	LITERS
SQUARE METERS	0.0002	ACRES	CUBIC METERS	264.1721	GALLONS
SQUARE METERS	0.0001	HECTARES	CUBIC METERS	35.3147	CUBIC FEET
ACRES	4046.8564	SQUARE METERS	CUBIC METERS	28.3776	BUSHELS
ACRES	0.4047	HECTARES	CUBIC METERS	6.2898	BARRELS(POL)
HECTARES	10000.0000	SQUARE METERS	CUBIC METERS	1.3080	CUBIC YARDS
HECTARES	2.4711	ACRES			

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